	Application No.	Applicant(s)
Notice of Allowability		
	10/619,704 Examiner	KIM, JI YON Art Unit
	Tuan T. Dinh	2841
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>09/16/05</u> .		
2. The allowed claim(s) is/are 1-2,4-16,18-23,25-28,31-34 (renumber claims are 1-29).		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). 		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	6. ☐ Interview Summary (Paper No./Mail Date 8), 7. ☑ Examiner's Amendm	ė
		3

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William Park (Reg. No. 55,523) on September 16, 2005.

The application has been amended as follows:

Claim 18, line 1, "package of claim 17" should be changed to - - package of claim 10 - - for proper dependently.

Allowable Subject Matter

2. Claims 1-2, 4-16, 18-23, 25-28, and 31-34 are allowed (renumber claims are 1-28).

The following is an examiner's statement of reasons for allowance: the references cited disclose a stack-type semiconductor package comprising a printed circuit board (PCB) having a circuit pattern, first and second devices, a conductive frame having first and second terminal, and some other claimed elements. However, they do not disclose or render obvious in combination of the package having the conductive frame, which is a lead frame, having a plurality of elongated lead parts, each

elongated lead part having a ball land at one end and a lead section at the other end, wherein the ball lands comprise the second terminals and are arranged in a predetermined pattern to correspond to the solder balls of the second device: and further wherein the lead section comprise the first terminals and are electrically connected to the PCB circuit pattern (as recited in claim 1), and the second device is electrically connected to the PCB circuit pattern and the first device via the conductive frame, the conductive frame is a tape automated bonding (TAB) tape, the first terminals are formed at the two ends of the TAB tape and are electrically connected to the PCB circuit pattern, and further the second terminals are formed at the middle portion of the TAB tape and are arranged in a predetermined pattern to electrically connect to the second device (as recited in claim 10).

Page 3

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hamaguchi et al. and Suh et al. disclose related art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Dinh whose telephone number is 571-272-1929. The examiner can normally be reached on M-F.

Application/Control Number: 10/619,704

Art Unit: 2841

Page 4

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kammie Cuneo can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tuan Dinh September 16, 2005.

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800